#### From the INTERNATIONAL BUREAU

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)

(PCT Rule 44bis.1(c))

To:

FEIT, Irving, N. Hoffmann & Baron LLP 6900 Jericho Turnpike Syosset, N.Y. 11791 **ETATS-UNIS D'AMERIQUE** 

OCT 2 5 2006

Date of mailing (day/month/year)

19 October 2006 (19.10.2006)

Applicant's or agent's file reference 1038-12 PCT

IMPORTANT NOTICE

International application No. PCT/US2005/009383

International filing date (day/month/year) 22 March 2005 (22.03.2005)

Priority date (day/month/year) 22 March 2004 (22.03.2004)

Applicant

RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

> The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Simin Baharlou

Facsimile No. +41 22 338 82 70

e-mail: pt09@wipo.int

### PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 1038-12 PCT	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2005/009383	International filing date (day/month/year) 22 March 2005 (22.03.2005)	Priority date (day/month/year) 22 March 2004 (22.03.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).				
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	3. This report contains indications relating to the following items:				
	Box No. I Basis of the report				
	Box No. II	Box No. II Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 11 October 2006 (11.10.2006)		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		olombettes	Authorized officer Simin Baharlou		
	Facsimile No. +41 22 338 82 70 e-mail: pt09@wipo.int				

#### PATENT COOPERATION TREATY

REC'D 0 4 SEP 2006 **WIPO** 

From the INTERNATIONAL SEARCHING AUTHORITY

HOPEMANN & RAPON IIP				
HOFFMANN & BARON, LLP 6900 JERICHO TURNPIKE				
6900 JERICHO TURNPIKE SYOSSET, NY 11791		WRITTEN OPINION OF THE		
STOSSET, RT 11791		INTERNATIONAL SEARCHING AUTHORITY		
		(PCT Rule 43 <i>bis</i> . 1)		
		Date of mailing (day/month/year) 31 AUG 2006		
Applicant's or agent's file reference	<del></del>	FOR FURTHER		
1038-12 PCT		See paragraph 2 below		
International application No.	International filing date	(day/month/year) Priority date (day/month/year)		
PCT/US05/09383	22 March 2005 (22.03.2			
International Patent Classification (IPC)				
IPC: H01L 31/0224( 2006.01);H01	L 31/0304( 2006.01)			
USPC: 250/214.1,214R;257/184,189,4		)		
Applicant				
RESEARCH FOUNDATION OF THE	CITY UNIVERSITY OF	NEW		
1. This opinion contains indications rel	ating to the following iten	ns:		
Box No. I Basis of the	Box No. I Basis of the opinion			
Box No. II Priority	Box No. II Priority			
Box No. III Non-establis	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of unit	Lack of unity of invention			
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain doct	uments cited			
Box No. VII Certain defe	Box No. VII Certain defects in the international application			
Box No. VIII Certain obse	ervations on the internation	onal application		
2. FURTHER ACTION				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the ISA/ U	S Date of complet	ion of this	Authorized officer Phoneia for Field	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	opinion		Stephone B. Allen	
P.O. Box 1450	08 July 2006 (08	8.07.2006)	•	
Alexandria, Virginia 22313-1450			Telephone No. 571-272-2434	

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US05/09383	

Box N	o. I Basis of this opinion
1. With	regard to the language, this opinion has been established on the basis of:
	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the led invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
, b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addit	ional comments:
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/09383

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims 1-31	YES		
	Claims NONE	NO		
Inventive step (IS)	Claims 1-31	YES		
	Claims NONE	NO		
Industrial applicability (IA)	Claims 1-31	YES		
,	Claims NONE	NO		
<ol> <li>Citations and explanations:</li> <li>Claims 1-31 meet the criteria set out in PCT Articled detector for sensing the strength of an external option superposed relationship with the electrodes; an asphaving a component of momentum oriented substantal</li> </ol>	ical wave comprising improvements of a substrate sect ratio as claimed wherein the local wave comp	comprising a semiconductor in		
laving a component of momentum offened sustain	many perpendicular to a detector surface.			
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